UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.

: 6,857,461 B2

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DATED

: February 22, 2005

INVENTOR(S): Dieter Girlich & Juergen Schaedlich-Stubenrauch

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page, should be deleted and substitute therefor the attached title page as shown on the attached pages.

Delete drawing sheets 1-2, and substitute therefore the drawing sheets, consisting of Figs 1-8, as shown on the attached pages

Signed and Sealed this

Twelfth Day of July, 2005

JON W. DUDAS Director of the United States Patent and Trademark Office

(12) United States Patent Girlich et al.

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(45) Date of Patent:

Feb. 22, 2005

(54) METHOD AND DEVICE FOR THE PRODUCTION OF RETICULAR STRUCTURES

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 126 days.

(21) Appl. No.: 10/079,331

Feb. 20, 2002

(65)**Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. PCT/DE00/02597, filed on Aug. 4, 2000.

(30)	Foreign	Application	Priority	Deta
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Aug.	20, 1999	(DE) 199 39 155
(51)	Int. Cl.7	B22C 9/04

(58) Field of Search 164/34, 35, 45,

164/235, 246

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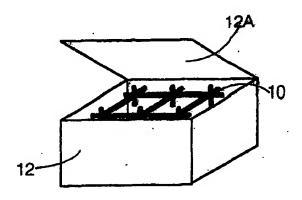
* cited by examiner

Primary Examiner-M. Alexandra Elve Assistant Examiner-Kevin P. Kerns (74) Attorney, Agent, or Firm-Patricia M. Mathers; Thomas L. Bohan

ABSTRACT

A method of producing reticular structures, particularly metallic reticular structures, as well as a device suitable for the production thereof. The method and device enable continuous and/or automated production of such structures, and particularly, large-scale automated production of largedimensioned reticular structures. A reticulated foam prestructure is placed into a first container and infiltrated with a refractory material. After solidification, the mold formed by the refractory material is removed from the first container and the foam pre-structure stripped from the mold. The mold is then pre-heated and placed into a second container and infiltrated with a molten substance that forms the reticular structure when solidified. The filled mold may be covered with a solid jacket as a means of controlling the rate and progression of solidification of the molten substance to form a fine-grained, bubble-free structure.

10 Claims, 2 Drawing Sheets

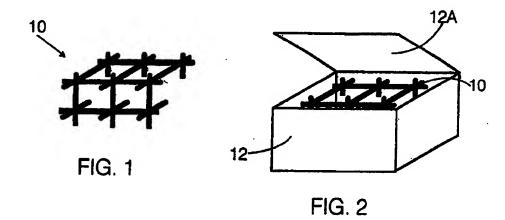


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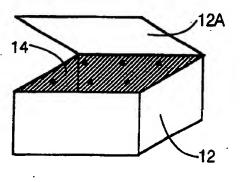


FIG. 3

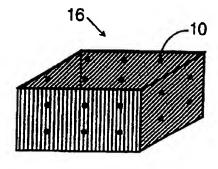


FIG. 4

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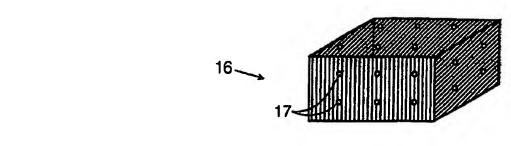


FIG. 5

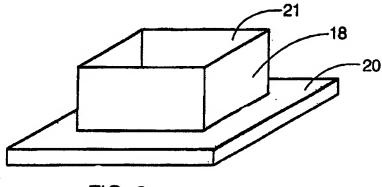


FIG. 6

